



HOURS Monday – Friday 8:00 AM - 5:00 PM EST **Toll Free Order & Tech Support: 888-399-6074 International Order & Tech Line: 1-540-483-4442 Fax: 540-484-1756 E-mail: support@DRPperformance.com** 

HOURS Monday Friday 0:00 AM 5:00 DM FOT

HOURS Monday – Friday 8:00 AM -5:00 PM EST

## www.DRPperformance.com

DRP Performance Products, Inc. 2089 Crooked Oak Rd. Rocky Mount, VA 24151





#### Satisfaction Guarantee

If you are not completely satisfied with the quality or functionality of any DRP product, contact us within 30 days of the purchase date and we will repair, replace or refund the product to you.

#### Returns

Returns are accepted on new, unused items in the original, undamaged packaging for refund within 30 days of the original purchase date. Returns are accepted for credit on items up to 90 days old. Items may be returned for repair or inspection at any time. Please include a copy of the original invoice and an explanation of action requested.

#### **Confidentiality Policy**

DRP is committed to keeping all customer information confidential. We respect the investment our customers make in education and research. We also appreciate their trust in DRP to maintain their privacy. No confidential customer information will be shared or sold. Confidential information includes purchase history and proprietary research. Please view our complete privacy statement at www.DRPperformance.com.

#### Warranty Disclaimer

DRP will repair or replace any products found upon inspection to be defective in workmanship or material within 12 months from the date of purchase for the original purchaser. DRP Performance Products will not be responsible for any loss, damage or injury resulting from direct or indirect use of any product from any manufacturer or inability by the purchaser to determine proper use or application of any product. Motor sports are dangerous. User accepts all risk. Purchase and/or use of any product implies recognition and acceptance of this disclaimer by the consumer.



## Finish Strong!

In our eternal race, victory lane is heaven. This is not the race you want to be disqualified from! Every package that leaves our building includes a pocket testament containing the Book of John, part of the bible. This booklet lays out the path to ensure your eternity with God in heaven. Sharing Jesus through these books is our way of making an eternal difference in the world. At DRP Performance, we recognize the true owner of this business and seek to honor Him in all we do. If you don't have a relationship with Jesus Christ, read the book and trust in Him. Check our of web-site for more information.

Contact us for additional copies for your personal, business, church or group distribution.



"Like" our Facebook page if you like technical information. We post in depth Tech Tips regularly and answer your questions.



Our DRP University You Tube Channel hosts a growing collection of technical videos and product demonstrations.

## Made in the U.S.A.!

We design, develop, test and manufacture our products right here in Rocky Mount, Virginia. We use select imported components in our products only when no suitable U.S. made item can be found. We take quality seriously and believe in old fashioned hard work and ingenuity. Thank you for purchasing American Made products!

## The DRP Difference

When you purchase a product from any company, you are putting your trust in that company and supporting whatever they stand for. At DRP, we want to earn your trust and we make it clear why we're here. It is our desire to be the absolute best at what we do. Our success is based on your success with our products. Here's our plan:

## 1. Product Testing

At DRP, we go to great lengths to separate theory from fact. The best way to accomplish this is testing. We build custom test fixtures, use data acquisition, computer modeling and track testing to determine if a product is really better and by how much. Testing takes lots of time and requires substantial financial investment, but we believe our job is to bring you truth, not just our opinion.

## 2. Share Our Knowledge

In racing, knowledge equals speed. It is our desire to share what we learn through our research and development, continually educating our customers. We're developing better ways to do this, but currently you can read tech article on our website, watch tech videos on our You Tube channel, get tech tips from our Face book page, receive personal training when you purchase our equipment and attend seminars we hold at our shop and at our dealers around the country.

## 3. Build the Best Products

Most every product we build originated right here in our shop. We're blessed with ideas and the ability to develop those original ideas into exceptional quality products. We're never satisfied and continually strive to improve everything. Sometimes we goof, but we always fix it. We are dedicated to delivering you the best products available.

## 4. Eternally Focused

While we put tremendous effort in designing and building great products, our true focus is on Jesus, our Savior. We recognize God's ownership of this company is our stewardship responsibility to Him. This recognition is not a proclamation of perfection, in fact, it's the opposite. We realize our imperfection and need for a Savior.





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Catalog prices are for reference and subject to change without notice.





















What does a Pull Down Fixture Do?

Pull Down Fixtures position your chassis the way it races on the track. When used properly, you can measure the racecars balance and wheel positions as they are on the track. This information can help you make better adjustments to make your car faster. You can also find chassis problems, such as suspension binds, flex or bent components. When used properly, you can test different set-ups and components to know which is best before you get to the track.

## The Difference Between Pull Down Fixtures & Suspension Analysis Systems:

We have pioneered pull down fixture and wheel alignment technology for the short track market for over 15 years. We've invested thousands of hours and hundreds of thousands of dollars studying suspension analysis and chassis set-up equipment and procedures. We've been blessed to work with some of the smartest and most successful crew chiefs, drivers and engineers in the business. All of this experience goes into the design and construction of our equipment as well as the training.

Our Pull Down Systems include access to our online knowledgebase and "Smart Software". These tools take the data you get from the pull down fixture and help you take action on it, giving you suggestions for chassis adjustments and identify settings that are out of range. Most of our systems include in depth training on how to properly use the equipment and interpret the information.

While many may imitate our designs, no one will bring you the combination of performance, quality and technical support for the price. If you're not completely satisfied with the quality and performance of our product, we'll buy it back. Guaranteed.

## How DRP Suspension Analysis Tools Pay for Themselves:

A DRP Pull Down System can pay for itself through cost savings from track testing and from unnecessary component purchases. It will ultimately save you time in wasted trips to the track chasing unknown problems. How much does it cost to buy new race cars, motors. tires and fuel chasing speed you may already have?

## **Turn Better - Increase Forward Drive - Increase Grip Set Travel/Bump Stops - Improve Chassis Balance - Find Binds**

*Our Equipment gives you the measurements. Our software and training show you how to use them!* 

## 5 Ways A DRP Pull Down Fixture Will Make Your Racecar Faster:

1. Measures Chassis Balance (Front, Rear, Left, Right, Cross, Bite) Under Full Load, at Track Height.

2. Measures Wheel Position (Toe, Bump, Caster, Camber, Rear Steer) Under Full Load at Track Height.

3. Identifies and Prevents Causes of Grip Loss (Binds, Wheel Load Spikes, Over-Traveling, Sway Bars, Droop Limiters)

- 4. Allows for Set-Up Testing and Verification Before You Get to the Track.
- 5. Teaches You How the Suspension Works and How Single Adjustments Affect the Entire Chassis.



- Precision Manual Joystick Controls (+/- .002)
- Extra Rigid, Extra High Load 4500lb Capacity Scales with 16" Pads
- Control Display Reads Wheel Weights, Shock Travels, Bump Stop Loads\* & Sway Bar Load\* (\*Sensors optional)
- Record and Graph Wheel Load Curves and Bump Stop Loads
- Quick Release Roll Offs Included, Optional Ramp System Available
- Smart Software Analyzes Your Data for You and Gives Suggestions
- PRO Support Level & On-Site Training Included

## DSS-4

## Fully Automatic Suspension Analysis System with **Graphing & Data Analysis Features**

- Fully Automated Touchscreen Controls
- Automatically Pull Down to Desired Travel or Wheel Load
- Easy to Use from Day 1
- · Data Logging, Graphing & Downloading
- Wheel Loads, Bump Stop Loads, Sway Bar Loads
- Wireless Remote Control
- Full Lap Simulation
- Smart Software Analyzes Your Data for You and Gives Suggestions
  - · Premium Level Support with On-Site Advanced Training Included

Starting at \$19,995.

Starting at \$34,700.



Components Kits

# Pull Down Scale Systems

Pull Down Scales offer higher loads and significantly increased rigidity than traditional wheel scales. DRP Pull Down Scale Systems also offer additional features not found on standard scale systems.

## WS2000 Wireless High Load Wheel Scales



- DRP Wireless Touch Screen Display
- Balance Analysis Screen
- Optional Shock Position Sensors
- Ultra Rigid Billet 1/2" Billet Aluminum Pads
- 24 Month Warranty
- 12 Months Standard Support Included

## WS4000 Wireless High Load Wheel Scales

- 4000 LB Load Capacity Per Wheel
- DRP Wireless Touch Screen Display
- Balance Analysis Screen
- Optional Shock Position Sensors
- Optional Bump Stop Load Cells
- Optional Sway Bar Load Cell
- Ultra Rigid Billet 5/8" Billet Aluminum Pads
- 24 Month Warranty
- 12 Months Standard Support Included

## **Basic Components Kit** for the Do-It-Yourself Team

All the components you need to make building your own pull down fixture simple. You build the stands and this kit supplies the rest. (No scales included.) A great kit to update hydraulic systems as well.

- Standard Kit Includes:
  - Single Speed Control Box
  - (2) Electric Pull Down Cylinders
  - Cylinder Caps
  - Beam Mounts
  - Slip Plates
- Optional Variable Speed Control
- Optional 3rd Cylinder













# 2019 DSS-1 Weekend Warrior Pull Down System

DSS-1 Pull Down Flxture

There's nothing basic about our most basic pull down system. The DSS-1 features precision controls, lightweight aluminum wheel stands with detachable roll offs. Accepts 2.5" or 4" height x 15" scale pads.



## **DSS-1 System Features**

#### Controls

- Variable Speed Joystick Controls
- Precision to .002"

## System

- 10" Tall Aluminum Wheel Stands
- Detachable Scale Roll Off Platforms
- Heavy Duty, Large Diameter Leveling Feet
- (2) Adjustable Height, Electric Chassis Cylinders
- Adjustable Rear Strut
- Wheel Base & Tread Width Adjustable
- Chassis Mount Kit
- PTFE Slip Plates
- Optional Ramp Kit

## Analysis Tools

Online Wheel Load Analyzer Basic

#### Support & Training

Access to Online Knowledgebase

Tech Tip:

- Lifetime System Support
- Online Training

## Warranty

- 12 Months Electronics
- 24 Months Fixtures





Shown with Optional Travel Display

## DSS-1AS Asphalt Standard Pull Down

<u>System</u>

Complete Pull Down System. Billet Aluminum Wheel Stands with Detachable Roll Offs. Portable Beam Kit. Chassis Mount Kit. Wheel Scales Not Included. \$5990.

(\$141./Mo for 24 Months with 50% Down)

## Upgrade Options

Additional Chassis Cylinder Add RS200 Wheel Alignment System

> System Financing Available! Check Out Our Options at drpperformance.com/financing or call 888-399-6074.



Gaining speed from your pull down fixture is more about the process and interpreting the data than it is about Performance Products the equipment. Tech support and knowledge should influence your buying decision more than cost.





## DSS-2

Pull Down Flxture

**High Load Pull Down System** Built for Serious Weekly & Touring Race Teams

## **DSS-2 System Features**

#### Controls

- Variable Speed Joystick Controls
- Precision to .002"

## System

- 12" Tall Billet Aluminum Stands
- Integrated Single Load Cell Scales
- 15" Billet Top Plates
- High Load Scales 2200lb per Wheel
- Detachable Scale Roll Off Platforms
- Heavy Duty, Large Diameter Leveling Feet
- Adjustable Height, Electric Chassis Cylinders
- Wheel Base & Tread Width Adjustable
- Billet Chassis Mount Kit
- PTFE Slip Plates
- Optional Ramp Kit

## Analysis Tools

- Online Wheel Load Analyzer Basic
- Pull Down Set-Up Spreadsheet

## Support

- 12 Months Standard Support
- Lifetime System Support
- Access to Online Knowledgebase
- Online Training, On-Site Optional

## Warranty

- 24 Months Electronics
- 60 Months Fixtures



## System Options

Acceleration Kit \$1650.00 Travel Display (Call) Deduct Wheel Scales -\$3200.00

Don't know which Tip: system to buy? Start with a lower system and build up. All DRP systems are upgradable. We'll also trade in your used system on a new one!

Tip:

Want to save some money? Use our floor or surface mount

kit. This replaces the standard beams and mounts. Saves \$1200.00 and simplifies the system!

**Customer Quotes:** "DRP Rocks. I love your stuff." "I just wanted to say thank you for selling me a great set-up tool."



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or call 888-399-6074.

## DSS-2AS Asphalt Standard Pull Down Systems

Complete DSS-2 Pull Down System Portable Beam Kit **Chassis Mount Kit** \$16,400.00 (\$386./Mo for 24 Months with 50% Down)

## DSS-2AM Asphalt Master Set-Up Packages

Standard Package Plus: RS400PRO Four Wheel/Dual Laser Alignment System Dynamic Dual Axis Caster/Camber Gauge Laser Ground Plane/Ride Height Kit \$21,300.00 (\$501./Mo for 24 Months with 50% Down)



Tech Tip:

During suspension travel, the wheels don't move, the chassis does. When checking bump steer, rear steer, ackerman, etc., don't jack the wheels up, lower the chassis down. There is a difference!



#### Tech Tip:

Speed can come from knowledge or by accident. We'll take both, but prefer knowledge. DRPperformance. com has a knowledgebase of tech articles and videos to help build your knowledge. DRP suspension analysis Performance Products equipment customers also have access to our online Private Knowledgebase with even more advanced info.



## **DSS-3** Advanced System for Professional Teams

The DSS-3 has set the standard for short track pull down systems. Used by top teams in almost every major North American racing series. New for 2019: Wireless Control Display with Advanced Data. Pro level support and on-site training gives you the help you need to utilize this equipment to make your racecar faster.

## **DSS-3 System Features**

## Controls

- Variable Speed Joystick Controls
- Precision to .002"
- Cylinder Travel Read-Out
- Optional Shock Position Read-Out
- Optional Bump Stop Load Read-Out
- Optional Sway Bar Load Read-Out
- Wheel Load Graphing
- Bump Stop Load Graphing
- Data Recording & Download

## System

- 12" Tall Billet Aluminum Stands
- Integrated Dual Load Cell Wireless Scales
- 16" Billet Top Plates
- High Load Scales 2200lb per Wheel
- Quick Release Scale Roll Off Platforms
- Heavy Duty, Large Diameter Leveling Feet
- Adjustable Height, Electric Chassis Cylinders
- Wheel Base & Tread Width Adjustable
- Billet Chassis Mount Kit
- PTFE Slip Plates

## Analysis Tools

- Wheel Load Analyzer Pro
- Pull Down Set-Up Spreadsheet

## Support

- 12 Months Standard Support
- Lifetime System Support
- Access to Online Knowledgebase
- Online Training, On-Site Optional *Warranty*
- 24 Months Electronics
- 60 Months Fixtures



## **ADVANTAGES**

- Travel Display For Increased Accuracy
- Wheel Load Graphing Finds Grip Loss Fast
- Balance Analysis Screen
- Wireless Scales
- Ultra Rigid High Load Scales
- Large 16" Scale Pads
- Data Download for Advanced Analysis
- On-Site Training

## SYSTEM OPTIONS

Acceleration Kit \$1650.00 Shock Sensor Kit with Mounts \$1219.00 Bump Stop Load Cell \$1249.00ea. Sway Bar Load Cell \$1299.00 Ramp System \$750.00







System Financing Available! Check Out Our Options at drpperformance.com/financing or call 888-399-6074.





## **DSS-3AS Asphalt Standard Pull Down System**

Complete DSS-3 Pull Down Fixture Portable Beam Kit Chassis Mount Kit \$22,500. (\$529./Mo for 24 Months with 50% Down)

## DSS-3AM Asphalt Master Set-Up Packages

Includes Complete Pull Down Fixture, Quick Release Scale Roll Off Platforms, RS400PRO Four Wheel/Dual Laser Alignment System, Ground Plane Laser Kit & (2) Dynamic Caster/Camber Gauges. \$27,500. (\$647./Mo for 24 Months with 50% Down)



New for 2019! Wireless Scales & Travel Sensors. Balance Analysis in Control. Bump Stop Loads. Sway Bar Load. Wheel Load Graphing. Bump Stop Load Graphing. Sway Bar Load Graphing.



#### Tech Tip:

Repeatability trumps Accuracy. It's more important to have a measurement you can repeat than it is to have a measurement that is accurate, but unreliable due to inconsistencies in the measurement tool or method. At DRP, we strive for both, but always choose repeatability.







## The Ultimate Short Track Chassis Set-Up System!

Automated Controls that Anyone Can Use: 1. Enter the shock travel or wheel loads you want to pull down to.

2. Press Start.

3. System will pull down and accelerate chassis and return it to static height in 30-45 seconds, while recording

shock travel, wheel loads, bump stop loads, sway bar load & more.

4. Make an adjustment and repeat!

4. Go to graphing page and view results or download data onto the USB for more detailed analysis.

# Fully Automated Controls Wheel Load Graphing Sway Bar/Droop Limiter Load Graphing Acceleration/Bite Graphing Bump Stop Load Graphing Lap Replay!

## **Control Features:**

Fast operation. Complete Test in <30 Seconds! Can be used in manual mode with joystick controls. Shock travel accuracy to .003". Wheel load accuracy to .1 lb. Wireless Remote Control allows user to control system from anywhere in the shop. Quickly screen shot any page and recall later or export and print from your computer or phone.

## System Features:

35+ Measurements in Less than 5 minutes. High Load/Dual Load Cell Wheel Scales Large 16" Scale Platforms. Billet Aluminum Wheel Stands. Roll Off Platforms Included. Ramp System Optional.

Tech Tip:

Standard Package Includes:

DSS-4 Control with Cables & Wireless Remote. Wheel Stands with Scales & Roll Offs. Portable Beam Kit. (Floor Mounts Optional) Chassis Mount/Installation Kit (4) Shock Travel Sensors.

#### Master Package Also Includes:

Sway Bar/Droop Limiter Load Channel Bump Stop Load Channels x 2 Analog Sensor Channels x 2 Acceleration/Deceleration Kit RS400PRO Wheel Measurement System Ride Height Kit with Ground Plane (2) Dynamic Dual Axis Caster/Camber Gauges

Ideal For:

Touring Race Teams where time and accuracy are crucial. Set-up Shops offering advanced services. Chassis Builders for advanced Research & Development.



What you don't measure, you can't improve. Without measurements you're adjusting from feel and emotion.
 Imagine going to the track and not measuring lap times. Adjustments without measurements are guesses.
 Measurements bring better understanding to what your adjustments are actually doing.



1 Packagos



## DSS-4AS Asphalt Standard Pull Down System

Includes Complete DSS-4 Pull Down Fixture, Scale Roll Off Platforms, Shock Sensors, Cables, Training, 12 Months Advanced Support, 2 Year Warranty on Electronics, 5 Year Warranty on Fixtures

\$34,750. (\$577./Mo for 36 Months with 50% Down)

## DSS-4AM Asphalt Master Set-Up Package

Includes Complete DSS-4 Pull Down Fixture, Scale Roll Off Platforms, Shock Sensors, Cables, Accel/Decel Kit, RS400PRO Wheel Measurement System, Ride Height/Ground Plane Kit, (2) Dual Axis Caster Camber Gauges, Training, 12 Months Advanced Support, 2 Year Warranty on Electronics, 5 Year Warranty on Fixtures \$46,000. (\$763./Mo for 36 Months with 50% Down)

## DSS-4 Control Upgrade Only for DSS-2 & 3 Systems

Includes DSS-4 Control, Shock Sensors, Cables,12 Months Advanced Support, 2 Year Warranty on Electronics

\$14,500.

System Financing Available! Check Out Our Options at drpperformance.com/financing or call 888-399-6074.



New DSS-4 Software gives user travel targets to know how far to travel your chassis. Acceleration control allows user to adjust accel torque for varying track conditions.



Customer Quote: "...he felt like it was worth every penny they spent. I am glad now that I purchased the best system you had."

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Pull Down Accessories



**Ground Plane Laser Kit** Level Scales and Measure Ride Height. Self-Leveling Laser. Heavy Duty Adjustable Height Laser Stand. (4) Billet Aluminum, Magnetic Frame Height Rulers.



PD21800 \$650.00



Acceleration Kit Apply acceleration and deceleration torque to the rear suspension with our revolutionary acceleration attachment. Measure Forward drive, dynamic bite, decel unloading, droop limiter timing & loads. Standard with all dirt systems.

PD20900 \$1650.00



#### Dual Axis Caster/Camber Gauge

Quickly Measure Caster and Camber Change as the Chassis Moves on Your Pull Down Fixture. Digital gauge is easy to read. Rechargeable battery. Does not measure static caster.

96500 \$199.00



#### RS200 Two Wheel/Single Laser Alignment System

Quickly measure rear end position, set toe, check camber, wheel base and more. Portable. Includes instructions and case.



90205 \$1800.00



Scale Stand Extension Kit Extend the height of your pull down system. Available in any length. Standard height extensions are 4", 6" & 8". Available for DSS-1, DSS-3 & DSS-4 Systems.

PD21805 \$575.00



Tech Tip: Measure wheel positions (Toe, Camber, Caster, etc.) at the position the car races on the track, not the position the car sits in the shop.



## RS400PRO Four Wheel/Dual Laser Alignment System

Our most popular alignment system. Read all four wheel positions at the same time. 30 minutes start to finish. Pricing may vary slightly depending on chassis type.

90400P \$3609.00



## Floor Mount/Surface Plate Mount Kit

Use this kit to mount your chassis cylinders directly to the floor or surface plate. Saves time and eliminates the need for beams and mounts.

PD20800 \$650.00



Basic Components Kit Want to save some money or upgrade your existing pull down rig? This components kit includes (3) electric pull down cylinders, cylinder mounts, single speed control panel, power supply, cables and slip plates.

PD20205CK \$3985.00



## Compact Variable Speed Control

This compact version of our popular DSS-3 control is available as an upgrade for the DSS-1 systems or standalone. Includes variable speed joystick controls, power supply and cables. Travel display screen shown is optional. PD20338 \$2400.00







#### Magnetic Mount Surface Plate Kit

Includes: (3) Magnetic Surface Plate Cylinder Mounts & (8) Surface Plate Wheel Stand Locator Plates.

PD20805 \$1850.00



DSS-4 Control Upgrade DSS-4 Automated Control Upgrade; Add to any DSS-2 or 3 system to have automated controls Includes: Touchscreen Control Panel, Hardware Cabinet, Cabling, Shock Sensors. (This upgrade requires the exchange of your current controls.) PD20348 \$14500.00



Ramp Kit for DSS-3 & DSS-4

System includes: Aluminum Ramps; Re-enforced Aluminum Center Sections with leveling feet. **Deluxe** Includes Adjustable Length Center Platforms and Front Roll Off Platforms.

PD20850 \$1850.00 PD20835 \$2450



DSS-1 Scale Stands Only Quickly measure rear end position, set toe, check camber, wheel base and more. Portable. Includes instructions and case.

90205 \$1800.00



## Travel Display Kit for DSS-2 & DSS-3 Systems

Travel Display Kit for Pull Down Systems; Includes: Screen, Extension Cable for Screen & (4) Long Sensor Cables

DA21573 \$599.00



Wheel plates replace the tire and wheel for more consistent measurements. Fully stagger adjustable. DRP Wheel plates incorporate a flat bottom with built in slip plate. 15 deg Camber +/-. 007 95010 \$299 (Wide Five) 007 95012 \$299 (5 on 5) 007 95020 \$249 (Legends)





Digital Wheel Base Tool

Track wheel base change automatically as the car position changes. Measures to .001". Slides over wheel alignment fixtures.

PD21805 \$575.00





Quickly measure wheel base with 1 person using this simple tool. Uses standard tape measure & shafts from wheel alignment fixtures.

98300 \$44

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## STOP Guessing Travels and Start Taking Measurements!

**More Information - Real Measurements Faster Troubleshooting & Better Tuning Improved Driver Performance** 

DRP Data Acquisition Systems are easy to use and ready for installation right of the box!

Don't know how to use data? Don't worry! We'll teach you.

What can you measure?

Shock Travel • Shock Speed (Velocity) • Steering Position • Throttle Position • Brake Pressures Car Position on Track (GPS) • RPM • Wheel Speed • Lateral Grip • Bump Stop Loads Trailing Arm Loads • Tire Temps • Sway Bar Loads • Spring Loads





The top 3 benefits to data acquisition are: 1. Learn where your chassis is traveling to and when it's getting there. 2. Learn shock speeds for accurate shock tuning. 3. Learn what the driver is doing and when he's doing rformance Products it. Learn how to use these basic features and your data acquisition system will be worth the investment.





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## Standard 5 Channel Data Acquisition System

The Standard system is a great place to start. The included shock position sensors will give you all the information needed to simulate on-track positions in the shop. This system is expandable to meet any of your future needs. This is a turn key system, ready to use out of the box.

AIM EVO-4s Data Logger

- 4 HD Shock Sensors with Cables
- Steering Sensor with Cable
- RPM
- Internal G Meter
- Analysis Software
- GPS Track Mapping
- Installation Kit (Includes All Mounts)
- · Case and Instructions
- System Support Included
- 2 Hour Training Class Included

DA21500 \$3950.00



Speed can come from knowledge or by accident. We'll take both, but prefer knowledge. DRPperformance.com has a knowledgebase of tech articles and videos to help build your knowledge. DRP suspension analysis equipment customers also have access to our online Private Knowledgebase with even more advanced info.





## **STOP Guessing Travels and Start Taking Measurements!**

More Information - Real Measurements Faster Troubleshooting & Better Tuning **Improved Driver Performance** 

DRP Data Acquisition Systems are easy to use and ready for installation right of the box!

## Deluxe 13 Channel Data Acquisition System

eluxe 13 Channel System

The Deluxe system is ready to handle all of your data logging needs. With 8 open analog channels and room to expand with more, you can add most any combination of sensors quickly.

- AIM EVO-4s Data Logger
- 4 HD Shock Sensors with Cables
- Steering Sensor with Cable
- RPM G Meter GPS Track Mapping
- 8 Open Channels, Ready to Add Sensors
- · Data Hub with Memory Key SD Card Memory Back-Up
- · Battery Pack (No need to wire to power)
- Deluxe Installation Kit
- · Case and System Training
- Standard Support Included
- Access to Private Knowledgebase Included
- 3 Hour System Training Class Included
- Expand to over 32 Channels!

DA21510 \$5250.00



Tech Tip:

Use data to improve your chassis handling through accurate suspension travel, better shock valving, bump stop timing, sway bar loading...Improve your engines performance through better gearing, throttle position, air nance Products flow...And your driving by studying your line, steering input, throttle usage and brake usage.





## Find more applications and information online @ www.DRPperformance.com



Tech Tip:

Using data acquisition to record shock travels automatically gives you shock velocity. Use this information to know what speed your shock is moving at any point on the track and more accurately read your shock dyno formance Products graphs. The data analysis software will also guide you to more accurately tune your shock valving.



Lateral Grip Sensors measure the lateral G-loads of the car. Use one sensor in the front and one sensor in the rear for a quick look at grip balance (loose/tight) at any point on the track.







## Save Set-up Time & Headache - Eliminates Strings & Tapes **Improve Consistency - Increase Accuracy Measure More in Less Time**

Complete Four Wheel Alignment in 45 Minutes! Start to Finish. Two Wheel Weekly Alignment Checks in 15 Minutes!

Over 20 Measurements: Toe x4, Camber x4, Wheel Base x2, Contact Patch Alignment x2, Rear End Squareness, Rear End Lateral Position, Axle Tube Straightness, Bump Steer x2, Rear Steer, Ackerman



## How Real Square<sup>™</sup> Systems Work:

Real Square Alignment Systems use Laser Line Technology and Precision Machined Fixtures to Quickly and Accurately Measure Wheel Position.

1. Wheel Fixtures are Mounted to Each Hub.

2. Chassis Fixtures (Frame Squares) are mounted to the Frame Rail. (Frame rail does not need to be straight.)

3. Laser Stand is Mounted to Rear of Chassis.

4. Right Side (or Left) Laser is Adjusted to be "Square" or Parallel with the Chassis

5. Left Side (or Right) Laser Line is Adjusted to be Parallel with the Right Side Line.

6. Walk Around the Car and Read All Wheel Positions Instantly.

7. Chassis Adjustments Can Be Made and New Wheel Positions Read Without Any Further Set-up!

## 5 Reasons You Should Be Using a DRP/Real Square System:

- 1. Saves Time. 15-25 minutes set-up time and you're reading the position (toe & camber) of all four wheels.
- 2. Increases Accuracy. Eliminates the primary alignment variables: Tires, Wheels & How You View the String.
- 3. Takes More Measurements. Take over 20 measurements easily and quickly.
- 4. You'll Do It More Often. With your alignment process being faster, you'll do it more often and catch problems sooner!
- 5. Find Problems Faster. Seeing your measurements allows you to find problems faster. "Out of sight, out of mind."



Customer Ouotes: "We picked up .2 seconds after getting your system and squaring our car up. Sat fast time last 2 races "It's paid for itself already!" Performance Products "Now it only takes me 45 minutes to do the complete alignment. It used to take me 2 nights."

Vheel Alignment Systems



System Financing Available!

Check Out Our Options at

drpperformance.com/financing

or call 888-399-6074.

#### RS400PRO Four Wheel/Dual Laser Alignment System

- Industry Standard System
- Read All Four Wheel Positions
- Static & Dynamic Measurements
- Four Wheel Fixtures
- Two Frame Squares
- Chassis Mounted Laser Stand
- Left & Right Side Laser Line

#### Kits Include Drive Flange Adapters

- Left & Right Side Laser Line
- Kits Include Drive Flange Adapters
- Wall Mount Storage System
- · Works with Most Chassis Types
- Instruction Manual
- Lifetime System Support

90400P-PLM Perimeter Late Model \$3520 90400P-ALM Offset Late Model \$3609 90400P-DLM Dirt Late Model \$3750 90400P-AMOD Asphalt Modified \$3750 90400P-DMOD Dirt Modified \$3650



#### RS200PR0 **Two Wheel/Dual Laser Alignment System**

- Same System as RS400PRO, with 2 Wheel Fixtures Instead of 4
- Easily Upgrades to RS400PRO
- Wheel Fixtures Can Be Moved to Measure All Four Wheel Positions.
- Wall Mounts Not Included
- Drive Flange Adapters Not Included
- Works with Most Chassis Types
- Instruction Manual
- Lifetime System Support

90200P RS200PRO \$2700



#### **RS200 Two Wheel/Single Laser Alignment System**

- Easily Portable/Track-side System
- Two Wheel Fixtures
- Single Side/Single Laser Stand
- Two Frame Squares
- · Laser Stand Quickly Clamps to Chassis
- · System Can be Moved From Right Side to Left Side or Front to Rear
- Wheel Fixtures Can be Used as Super Accurate Toe Plates
- Works with Most Chassis Types
- Instruction Manual
- Lifetime System Support





Tech Tip:

The primary difference between consistently fast cars and consistently slow cars is most often the most basic things. Inconsistent ride heights, poor wheel alignment (static or dynamic) and unknown suspension binds. formance Products These issues usually cost very little to fix and are easy to find with the right tools!





Wheel Allgnment Accessorles



Wheel Fixtures Eliminates tire and wheel run-out. Speeds the alignment process with measurement "scales" built in. (No more tape measures!) Can be used with strings or lasers. Front fixtures mount directly to spindle. Rear fixtures mount to spindle or drive flange. Available for almost any application. From \$399.00



**Frame Squares** Frame square are one of the biggest time savers and best ways to increase accuracy. Works with our laser systems or standard strings.

97233 Square Tube Frame Square \$140.00 97240 Round Tube Frame Square \$140.00



Laser Stand Assembly Our laser stands mount directly to the rear of the chassis and project laser lines toward the front. The lines are adjustable to square with your frame. Round tube or square tube mounts available.

98201 RS400 Dual Laser Stand Assy \$1630.00 98210 RS200 Single Laser Stand Assy \$699.00



Ground Plane Laser Kit Level Scales and Measure Ride Height. Self-Leveling Laser. Heavy Duty Adjustable Height Laser Stand. (4) Billet Aluminum, Magnetic Frame Height Rulers.

PD21800 \$650.00



Wheel plates replace the tire and wheel for more consistent measurements. Fully stagger adjustable. DRP Wheel plates incorporate a flat bottom with built in slip plate. 15 deg Camber +/-. 007 95010 \$299 (Wide Five) 007 95012 \$299 (5 on 5) 007 95020 \$249 (Legends)



## Wheel Base Tool

Quickly measure wheel base with 1 person using this simple tool. Uses standard tape measure & shafts from wheel alignment fixtures.

98300 \$44



Drive Flange Adapters Speed up the process by using these adapters to mount directly to the drive flange. Replaces the drive flange dust cap. Available for most applications.

Specify Application \$60.00



Slip Plates Slip plates should always be used during scaling and wheel alignment. Our slip plates use sheet PTFE. No Grease! No Mess! Durable and Clean. Set of 4.

007 90301 \$220.00



#### Dual Axis Caster/Camber Gauge

Quickly Measure Caster and Camber Change as the Chassis Moves on Your Pull Down Fixture. Digital gauge is easy to read. Rechargeable battery. Does not measure static caster.

96500 \$199.00



**Slip Plates** Removing tire bind from the chassis is critical for accurate set-ups. These slip plates are designed to be affordable and clean. No grease used here! Load dissipating steel plates with a black powder coated finish. Use the standard axle sets for track side use or when the set-up surface is rough. Use the "scale topper" plates on top of your scale pads, set-up platforms or surface plate. Heavy duty for years of use.





Always use slip plates on all four wheels during set-up. Standard scale roll-offs will not completely relax tire bind.

## **Steering Lock Kits**





No more vise grips! Positively lock steering with these simple tools.

## Set-Up Struts



Item Number	Description	Price	Item Number	Description	Price
007 90125	Steering Box Lock Kit; Standard	\$150	007 95150	Quick Adjust Set-Up Strut; Short 13.25"- 16.5"	\$150
007 90127	Steering Box Lock kit;500" Offset	\$150	007 95155	Quick Adjust Set-Up Strut; Long 17"- 24"	\$150
007 90130	Steering Lock Kit for Sweet Power Racks	\$27.	_		

#### Tech Tip:

Center and lock steering before wheel alignment and setting toe. Steering that is not centered can pull to one rformance Products side. Toe discrepancies can be easily detected with a good measurement procedure.

## "An Introduction to Racecar Engineering"



This book is must have resource for all serious race teams. 600+ pages of valuable information to help you understand how suspensions work and how to tune them.

Item Number	Description	Price
SL15100	"An Introduction to Race Car Engineering"	\$129.

Steering "X" Tool

Use this tool to center or "X" your steering. Adjusts from 16"-31". Kit includes caliper, one set of 2" long pins and one set of 4" long pins. Also works for suspension tubes and shocks.

Item Number	Description	Price
007 90110	Steering "X" Tool; 16"-31"	\$69

25



# Wireless Wheel Scales with Roll Offs

Track Tools

DRP wireless track scales have built-in roll off platforms. No need to carry scales and roll offs separately. Lightweight, yet rigid billet aluminum construction. DRP touchscreen wireless display reads all four wheel weights, percentages, center of mass (balance) and shock position (ride heights).

## WS2000T Wireless Wheel Scales with Roll Offs





Tech Tip:

Measuring shock centerline distance (eye to eye), will ensure that your ride heights are correct, from a suspension position standpoint. Chassis heights can still be off (low or high) depending on tire size and air pressure.



## **Triple Probe Memory Tire Pyrometer**

Reduce Tire Temp time by 66%! Our triple probe tire pyrometer takes all 3 temps at one time. Super quick and easy to use for right or left handed crew members. Automatically save 10 sets of temperatures. Rechargeable battery. Tire probes available for 8", 10" & 15" tires.



- Single Button Push Takes all 3 Temps at Once
- Increasing Speed Prevents Tire Cooling and Gives You More Accurate Temperatures.
- Fixed Probes with Position Gauge Allows For More Consistent Readings

Developed By: Lazy J Engineering

• LCD Color Display



PAGE Rear Right 58 58 58 58 59 59 58 58 1 58 58 58 59 58 58 58 AVG

- Displays Average & Split for Each Tire
- Stores 10 Sets of Temps for Quick Review
- Durable, Yet Lightweight Composite Carbon Housing

TP17000 Triple Probe Memory Tire Pyrometer \$599.

# Digital Wireless Brake Bias Gauge

We wanted a way to check brake bias and check brake pressure timing without installing a complete data acquisition system. So, we built one. Our Digital Brake Bias Gauge is a data logger that graphs front and rear (or left & right) pressure gain in the shop and on the track. It also gives you live pressures and brake bias. Pressure sensors plug into transmitter. Receiver and display are wireless. Download data onto usb drive for more in depth analysis.





## **Rear End Fixtures**

Our rear end checking fixture measures individual wheel toe and camber quick and easy. No more rotating the rear and trying to keep up with the dial indicator. This fixture is machined from heavy duty billet aluminum plate, with integrated v-blocks to accurately center the rear and caps to allow the user to set the desired pinion angle and hold the rear in position. Once in place, take the included digital caliper, and place it on the fixture pegs located below the rear cover and on the hub plate. Press zero. Move the caliper to the front pegs and read the toe for that axle tube to .001". Repeat procedure for the other axle tube. For camber, simply use a digital caliper on the wheel plate or rotate the rear 90 degrees and repeat procedure. Anyone can use this fixture accurately and quickly. Straighten rear by jacking or heating/cooling, your choice. Included struts allow precise straightening when heat cool method is used. Wide Five hub plates are standard, 1" thick 5x5 plate adapters Works on any 3" OD axle tube rear.



Item Number	Description	Price
007 92005	Precision Rear End Measuring & Straightening Fixture with Digital Caliper (Specify Quick Change or 9" Ford)	\$2450.00
007 92006	Standard Rear End Measuring & Straightening Fixture (Use Tape Measures) (Specify Quick Change or 9" Ford)	\$1850.00
007 92010	5x5 Adapter Plates (Set of 2)	\$240.00



## Standard Set-Up Struts

- Use set-up struts to replace the shocks and springs for more precision set-up work.
- Made using our original scalloped aluminum tubes and quality rod ends.
  - Adjusts easily by hand or with our scalloped tube wrench.
    - Fits all Standard 1/2" Mounts.
  - Listed lengths are the adjustment range in Center to Center measurements.

Item #	Range	Tube	Price
007 50912	12.75"-13.75"	10"	\$44.00
50913	13.75"-14.75"	11"	\$44.00
50914	14.75"-15.75"	12"	\$44.00
50915	15.75"-16.75"	13"	\$44.00
50916	16.75"-17.75"	14"	\$44.00
50917	17.75"-18.75"	15"	\$44.00
50918	18.75"-19.75"	16"	\$44.00
50919	19.75"-20.75"	17"	\$44.00
50920	20.75"-21.75"	18"	\$44.00
50921	21.75"-22.75"	19"	\$44.00
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Chassis Tools



## Spindle Fixture

Top teams and chassis builders use our adjustable spindle fixture to check, repair and build new spindles. Teams utilize this fixture to check purchased spindles and develop new combinations "in house". Chassis builders utilize the fixture for custom spindles. Build and check both fabricated and forged spindles. This fixture is heavy duty, yet fully adjustable. Fixtures weighs over 60 lbs. Adjustable height, spindle pin drop, pin angle, steering arm length, steering arm angle & spindle pin offset. Easily jigs existing spindles, allowing for repairs and changes. Available for Standard Wide Five, 2 7/8" Wide Five, 5x5 GN, 2 1/2" 5x5 & 2" Bearing 5x5 style spindles. Custom configurations available.

## Fixture for Measuring & Building Spindles:

- Adj. Spindle Height 6"-12+"
- Ball Joint Alignment
- King Pin Angle 0-15 deg
- Steering Arm Location
- Spindle Pin Drop
- Spindle Pin Offset
- Spindle Pin Lead



Item Number	Description	Price
007 80200	Spindle Fixture Assembly; Wide Five & 2" 5x5	\$1350.00
007 80260	Replacement Upper Ball Joint Bolt (772 Taper)	\$32.95
007 80200.5	Replacement Lower Ball Joint Stud (727 Taper)	\$52.60
007 80200.5B	Replacement Lower Ball Joint Stud ((B)2" K6141 Taper; Howe 22410)	\$52.60
007 80256	King Pin Shaft Extension 3" (For Extra Tall Spindles)	\$56.60
007 80270	Extra Steering Arm Holder (Allows Jigging RS & LS without moving holder.)	\$195.15
	Fixtures Available for 1 1/2", 2", 2.5", 2 7/8" Spindle Pins & Custom Applications	

## Shock Travel Indicator

Our new shock travel indicator attaches directly to the head (or nut) or your shock bolt. Quickly slip the mount over the bolt head and tighten the locking screw to secure. An innovative pointer allows you to measure the shock centerline accurately in seconds. Carbon travel indictors for compression and rebound. Adjustable stainless steel travel rod mounted in LW aluminum housing.

Quickly Measures Shock Center to Center! Compression and Extension Travel Indicator

Mounts Easily to Bolt Heads or Nuts

007 95200 Shock Travel Indicator Kit with Slip-on Mounts \$99.00 (each)



SYSTEM

**STANDARD** 

**PRO SUPPORT** 

## SYSTEM SUPPORT

Technical Support

Included with all Pull Down & Data Acquisition Systems for the lifetime of the system to the original purchaser. System Support Covers:

- Questions about System Installation & Basic Use
- Contact via Phone or Email During Business Hours
- •Term: Lifetime of Product to the Original Purchaser

## STANDARD SUPPORT

- Types of Support:
- Questions about System Installation & System Use (Procedures)
  - Access to:
  - Private Online Knowledgebase
    - Basic Analysis Tools
      - Online Training
        - Contact:
  - Contact via Phone or Email During Business Hours
    - Cost: \$480.00/Year

## PRO SUPPORT

Types of Support:

Questions about System Installation & System Use (Procedures)

•Questions about Chassis Set-Up

•Set-Up Analysis • Data Analysis •On-Site Training •Trackside Support

Access to:

• Private Online Knowledgebase • Advanced Analysis Tools • Online Training

• 50% Discount on All Seminars

**Contact:** 

• Contact via Phone or Email During Business Hours

Cost: \$1500.00/Year

## **PREMIUM SUPPORT**

Types of Support:

• Questions about System Installation & System Use (Procedures)

•Questions about Chassis Set-Up

- •Set-Up Analysis Data Analysis •On-Site Training •Trackside Support Access to:
- Private Online Knowledgebase 
   Advanced Analysis Tools 
   Online Training
- 50% Discount on All Seminars 50% Discount on Shop & Trackside Support Contact:
- Contact via Phone or Email During Business Hours Contact via Mobile After Hours Cost: \$3600.00/Year

888-399-6074 • www.DRPperformance.com

PREMIUM SUPPORT

# Modular Surface Plate

New for 2019! We designed a surface plate that can be shipped to you via motor freight and installed in 3 hours without any rigging required! Surface plates provide a clean, level surface for chassis set-up, measurements, body hanging and more. Includes installation kit with leveling screws.









- Optional Skirt Kit
- Optional Lift
- Leveling Screws Every 24"
- Optional Skirt Kit

- 8' Wide
- Available in 12', 16' & 20' Lengths
- 3/8" AR Plate (1/2" & 3/4" Optional)
- 3/4" x 2" Reinforcement Strips
- 24" x 24" Jack Extension Plates Standard



SP18012 8 'x12'x3/8" Modular Surface Plate with Jack Platforms \$6150. SP18016 8'x16'x3/8" Modular Surface Plate with Jack Platforms \$7590. SP18020 8'x20'x3/8" Modular Surface Plate with Jack Platforms \$9100.



Customer Quote: "You guy's always have the coolest new stuff."

# Suspension Analysis Products

Pull Down Systems Wheel Alignment Systems Data Acquisition Systems Pull Down Kits • Scale Systems • Slip Plates Tire Pyrometers • Brake Bias Gauges Rear End Fixtures • Spindle Fixtures & More

# **Low Drag Hub Components** Bearing Spacers • Seals • Bearing Kits • Grease Bearing Packers • Hub Set-Up Tools • Seal Drivers

# Specialty Products

Scalloped Suspension Tubes Sway Bar Components • LW Brake Rotors Chassis Set-Up Tools

